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indicates an age older than the Dakota group, and probably equivalent to the Cenomanian of Europe, and the Lower Tuscaloosa of Alabama. Part 2 of the bulletin deals with the systematic paleobotany.

4. This is a descriptive summary of the fish remains known within the limits of the state of New Jersey.

5. New Jersey ranks second in the list of states in the value of products from the clay industry. In this a decided increase is shown over the previous year. The production of iron decreased. Zinc mining had a decrease in the amount of ore hoisted, but an increase in tonnage separated.

A. E. F.

The Maxville Limestone. By WILLIAM CLIFFORD MORSE. Geol. Survey of Ohio, 4th series, Bull. 13. Pp. viii+128; figs. 6; pls. 5.

The Maxville limestone is the top of the Mississippian system in Ohio, and has a thickness of about fifty feet. It is underlain by the highest member of the Waverly, and is overlain unconformably by the Sharon conglomerate, the lowest member of the Pennsylvanian. It outcrops between Zanesville and the Ohio River in two well-defined areas, separated by a region in which it is completely lacking. This bulletin adds twelve species to the Maxville fauna hitherto known. A Ste. Genevieve age is indicated with the probabilities that it corresponds to the Ohara member of that formation. In the Appalachian region the Greenbrier limestone is the equivalent in age. One chapter is devoted to abstracts of the literature on the Maxville, and one chapter to the economic uses to which the limestone can be put. Several analyses are given.

A. E. F.

Wirt, Roane, and Calhoun Counties. By RAY V. HENNEN. W.Va. Geol. Survey. Pp. xx+573; figs. 6; pls. 15; maps 3.

This is one of the series of county reports being published by the Survey. It is largely descriptive and covers the history of the area, its physiography, general and detailed geology, geologic structure, oil and gas fields, coal resources, clays, road materials, building-stones, and soils. The detailed geologic contour structure map shows the location of the anticlines where the drilling for oil and gas wells would be most favorable. The soil survey of these counties is the work of W. J. Latimer and F. N. Meeker of the Department of Agriculture. The maps are on a scale of about an inch to the mile, and are in a cover separate from the text.

A. E. F.